

THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS
ACTION AGENDA SUMMARY

DEPT: Public Works *PHugh*

BOARD AGENDA # *B-14

Urgent Routine *ort*

AGENDA DATE June 11, 2013

CEO Concurs with Recommendation YES NO
(Information Attached)

4/5 Vote Required YES NO

SUBJECT:

Approval to Use Criminal Justice Facilities Funds to Partially Fund the Purchase of the 2013 Aerial Photo of Stanislaus County for the County Geographic Information System (GIS)

STAFF RECOMMENDATIONS:

1. Approve the use of \$7,200 of Criminal Justice Facilities fund as partial funding for the purchase of the 2013 Aerial Photo of Stanislaus County for GIS.
2. Authorize the Auditor-Controller to increase appropriations in the Criminal Justice Facilities Fund budget in the amount of \$7,200, and the Public Works Administration budget in the amount of \$58,500, per the financial transaction sheet.

FISCAL IMPACT:

The total cost of the 2013 aerial photo is \$58,500. The aerial is of the entire county, including the nine cities. To gather the needed funding, Geographic Information System (GIS) Central staff reached out to partnering cities and county department users in order to purchase the 2013 satellite photo aerial.

(Continued on Page 2)

BOARD ACTION AS FOLLOWS:

No. 2013-282

On motion of Supervisor O'Brien, Seconded by Supervisor Monteith

and approved by the following vote,

Ayes: Supervisors: O'Brien, Withrow, Monteith, De Martini and Chairman Chiesa

Noes: Supervisors: None

Excused or Absent: Supervisors: None

Abstaining: Supervisor: None

1) Approved as recommended

2) Denied

3) X Approved as amended This Item was removed from the consent calendar for discussion and consideration.

4) Other:

MOTION: Approved Staff Recommendations Nos. 1 and 2; and, amended the item to direct the Director of Public Works to include in future contracts with the cities within Stanislaus County a contribution towards updated aerial photos of the County for GIS services

Christine Ferraro

ATTEST: CHRISTINE FERRARO TALLMAN, Clerk

File No.

Approval to Use Criminal Justice Facilities Funds to Partially Fund the Purchase of the 2013 Aerial Photo of Stanislaus County for the County Geographic Information System (GIS)

FISCAL IMPACT (Continued):

In addition to the \$7,200 contribution from the Criminal Justice Facilities Fund, the following Cities and County departments have volunteered to contribute the following amounts toward the full funding of the 2013 satellite photo:

- City of Ceres - \$3,200
- City of Patterson - \$3,200
- Agricultural Commissioner - \$3,200
- Clerk Recorder/Elections - \$3,200
- Environmental Resources - \$3,200
- Office of Emergency Services - \$3,200
- Planning & Community Development - \$3,200
- Stanislaus Regional 911 - \$3,200
- Strategic Business Technology - \$3,200
- Assessor - \$10,000
- Public Works - \$12,500

The available uncommitted fund balance of the Criminal Justice Facilities Fund as of April 30, 2013 is \$1,733,807.

DISCUSSION:

Geographic Information System (GIS) Central is a division of Public Works that was formed in 2008 as part of the Stanislaus County Business Technology Strategy. GIS Central provided the direction and resources to develop Stanislaus County's GIS into a dynamic application. GIS' availability on the County's intranet system for internal users and on the County website for external users, provides a powerful tool at minimal cost to a large number of government employees and private individuals.

GIS is an information management technology that combines computer mapping and database technologies to improve the management and analysis of location based information. The ability to answer "Where is ..." sets GIS apart from other information technology systems. GIS is embedded within many information systems including permitting, emergency response, navigation systems, crime analysis, and transportation logistics, in addition to traditional map oriented systems. Digital geographic information is the defining characteristic of a GIS, and is accessed by GIS applications to serve user specific needs.

An important component of GIS is the aerial photo. As users, aerial photographs play an important role in data acquisition and visualization by providing a solid visual effect. Many people are able to put spatial concepts into perspective when seeing photos. Aerial photos also provide a basis for gathering spatial information. In the past (1998, 2006, and 2008), Stanislaus County Public Works funded the purchase of the aerials, making it available to other departments and agencies. With the economic downturn and coinciding loss of financial support, Public Works reached out to other agencies and County departments to partner for the aerial purchase.

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In 2010 the cities of Waterford, Oakdale, Ceres, and Modesto, voluntarily contributed partial funding for the purchase of the 2010 aerial, with the remaining funding provided by Public Works. The 2010 aerial, the most recent available on the GIS website, was purchased in May 2011.

GIS Central staff had planned on updating the aerial photograph every two years to ensure that the information provided was as current as possible within financial constraints. However, when staff was in the process of researching the purchase of the 2012 aerial, they were notified that the 2013 aerials had just been completed in mid-May 2013 and was available at a slightly higher cost. The purchase of the 2013 aerial will provide the most up-to-date information available.

GIS Central currently provides many services to outside agencies, the public, and Stanislaus County staff in terms of GIS data, support, development, and maintenance. GIS Central provides both the internal (intranet) and external (internet) website to users/customers. GIS applications include, but are not limited to:

- *County Bridges: search county bridge information-weight loads, Caltrans bridge reports*
- *Parcel Inquiry Map: search by APN, address, or point; provides general plan, zoning, district, and flood information as well as links to assessor and tax information*
- *County Road Projects: current and past road projects and pavement management system*
- *Stanislaus County Recorded Maps: provides the ability to look up and download Subdivision, Record, and Parcel Maps*
- *Aerial lookup is provided with all applications*

In addition, GIS leverages the massive amount of location based data collected each day to create actionable intelligence that law enforcement and office of emergency agencies can use and share. Agencies such as the Sheriff and Regional 911 benefit from the current GIS system in the ability to quickly locate and map emergency call locations, generate maps, spatial analysis, and access to multiple visualizations (aerials).

GIS Central is extremely fortunate to have other County departments and Cities who recognize the value of GIS and are willing to partner in the effort to continually improve the GIS system. When the division identified the funding needed to purchase the 2013 aerial and reached out to the many users, the response was positive. In these difficult fiscal times, GIS Central staff are grateful for the support provided. With this continued support the vision of developing a GIS Central to become accessible and used by all, is becoming a reality.

POLICY ISSUES:

The recommended actions are consistent with the Board's priorities of Effective Partnerships and Efficient Delivery of Public Services by partnering with city agencies within Stanislaus County and other County departments. Furthermore, this will improve the efficiency of county government processes, improve customer satisfaction, and increase e-government services by providing an updated aerial through GIS Central website.

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STAFFING IMPACT:

GIS Central is comprised of two staff that maintains the system and provides support and services to partner cities and County departments.

CONTACT PERSON:

Matt Machado, Public Works Director. Telephone: (209) 525-4130.

PK:lc

H:\CLERICAL\Board Items\2013\Aerial_GIS\Aerial-GIS_BOS 6.11.13

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Balance Type
Data Access Set

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Budget
County of Stanislaus

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Ledger
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Period
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Explanation: GIS aerial (\$3,200 each: Ag Comm, Clerk Recorder/Registrar of Voters, Env. Res, OES, Planning & Comm Devt, SR911. SBT)
(\$10,000 Assessor, \$4,100 PW Eng & PW Road Ops, \$7,200 Criminal Justice Facilities, \$4,300 PW Admin Fund Balance)
(\$3,200 each: City of Ceres, City of Patterson)

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|---|---|------------|--|
| Requesting Department <i>[Signature]</i> | CEO <i>[Signature]</i> | Date Entry | Auditors Office City <i>[Signature]</i> |
| Prepared by <i>[Signature]</i> | Supervisor's Approval <i>[Signature]</i> | Keyed by | Prepared By <i>[Signature]</i> |
| Date 5-29-13 | Date 6/5/13 | Date | Approved By 6/5/13 Date |